

**SENSOR ASSEMBLY FOR STRINGED MUSICAL INSTRUMENTS****ABSTRACT OF THE DISCLOSURE**

A sensor assembly for a stringed musical instrument  
5 having a plurality of movable strings includes at least one  
blade adapted to be disposed adjacent the strings and at least  
one magnet disposed adjacent the at least one blade to generate  
a magnetic field through the at least one blade. The sensor  
assembly includes a primary winding disposed adjacent the at  
10 least one blade to create a primary current from a disruption in  
the magnetic field by the moveable strings. The primary current  
creates a primary electromagnetic flux. The sensor assembly  
also includes at least one secondary winding spaced from the  
primary winding and being magnetically coupled to the primary  
15 winding. The at least one secondary winding transforms the  
primary electromagnetic flux into a secondary current adapted to  
be passed out the stringed musical instrument.